

Virtualbox
Opensource Virtualization Software
www.virtualbox.org



Outline

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Overview

- Virtualization – running OS inside another OS
- History – 2007, Innotek, Sun, Oracle
- Xen, KVM, Vmware, Virtualbox
- Host vs Guest
- Multi-platform Linux, Windows, Mac
- Virtualbox Interface
- Preconfigured VM

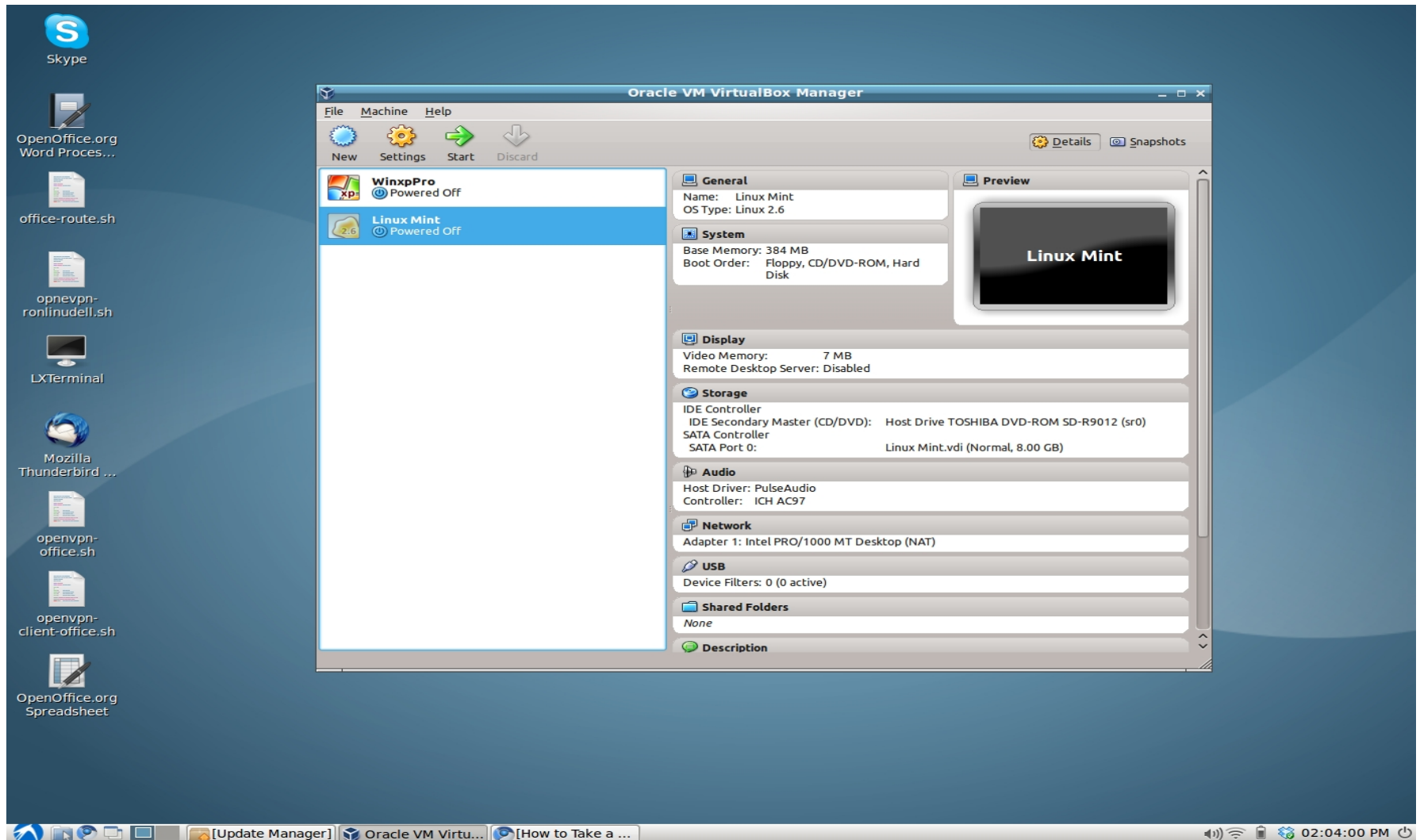
System Requirements

- Minimum Recommendations
 - Single core CPU, 2 GHz or faster
 - 1 Gb memory
 - 10 Gb or more free hard disk space
- 32 or 64 bit Systems
- x86 Platform
- Linux, Solaris, Windows and Mac

Installation

- Download from www.virtualbox.org
- Don't use OSE (Open Source Edition)
- Select appropriate version for your Linux distro
- Make sure that your Virtualbox host kernel modules are updated on system updates (dkms).

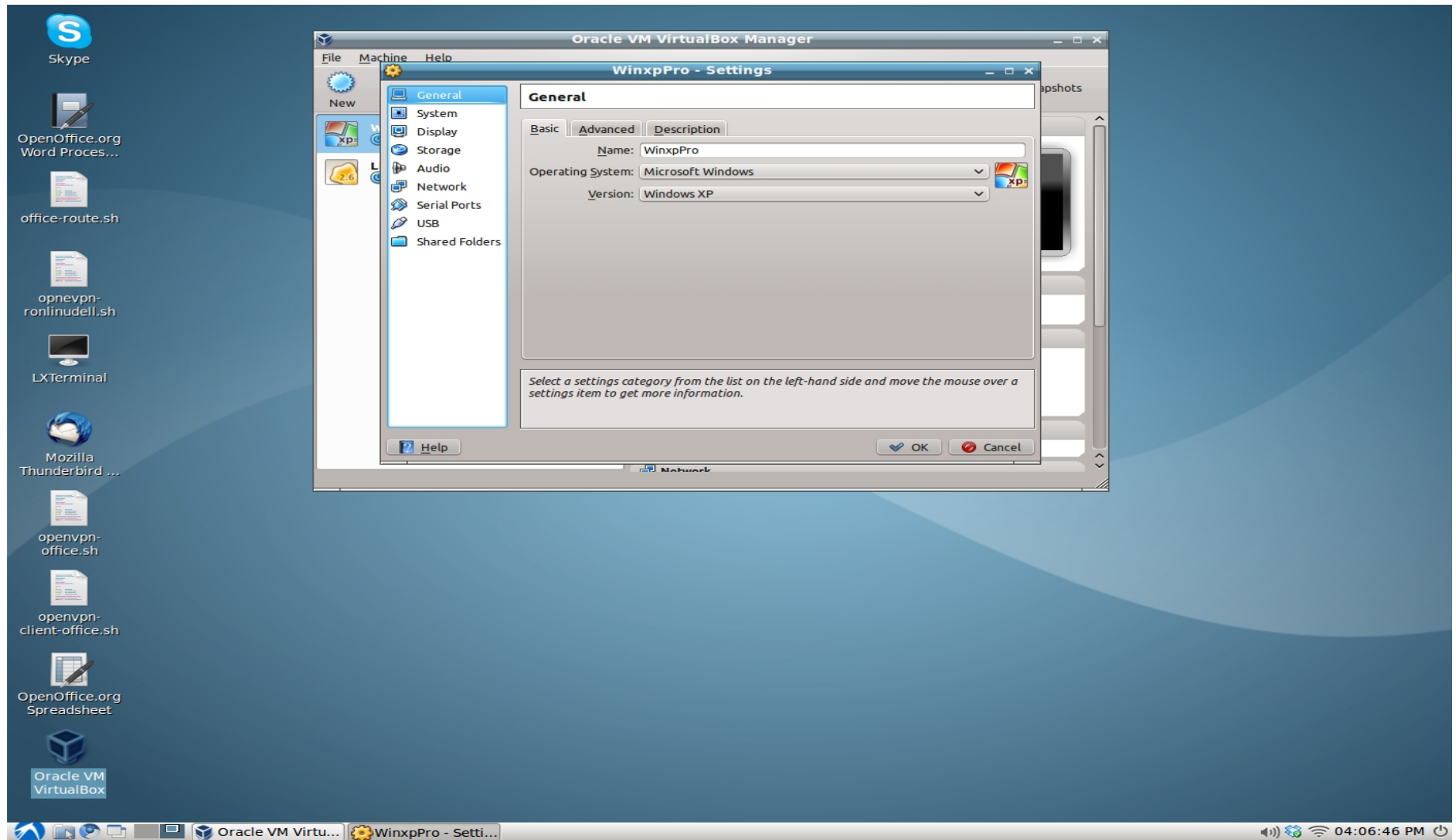
Virtualbox Setup



Create New VM

- Guest OS disk or iso available
- Gui Interface – New
- Give it a descriptive name
- Choose type of OS
- Select virtual memory size
- Create a virtual hard disk boot drive
 - Use existing vdi disk or
 - Dynamic or fixed new disk
- Save

Settings



Moving VM

- Copy .virtualbox dir and restore on host
- Move just vdi file to host and create new VM
- Snapshots present problems moving

Remote Access

- VRDP
- Phpvirtualbox
- SSH, FTP, Samba

Headless

- Wget Virtualbox
- VBoxManage (Ubuntu 9.04 Server)
 - createvm -name " " -register
 - modifyvm " " -memory "256MB" -acpi on -boot1 dvd -nic1 nat
 - createvdi -filename " " -size 10000 -register
 - modifyvm " " -hda "Ubuntu_9_04_Server.vdi"
 - registerimage dvd /home/ubuntu-9.04-server-i386.iso
 - modifyvm "Ubuntu 9.04 Server" -dvd /home/ubuntu-9.04-server-i386.iso
- VBoxHeadless -startvm "Ubuntu 9.04 Server"

Summary

- Virtual software like Virtualbox allow you to run OS in a OS (host/guest)
- Modest system requirements
- Runs on x86 Linux, Windows, Solaris, Mac
- Installation from latest download
- Nice GUI interface for creating new VM, modifying settings and starting VM
- Moving VM can be done in several ways
- Remote access
- Headless VboxManage commands